Technical Specification

XM Series

Retail printing scales

XM100

XM200

XM400

Description

General

The XM series provides a complete set of scales and printers, covering the different requirements of fresh food counters, self-service, pre-pack areas, bakery and point of sale areas for supermarkets and speciality stores. The scales may be used in stand-alone mode or networked together to form departmental systems. In addition, the different departments can be networked together and connected to a back office computer, to form store-wide or centrally managed networks. The scales can operate in a number of different modes, printing individual labels for each item or combining the shoppers' items together and printing a single receipt.

Models

XM100
Monobloc scale
A compact weighing and printing terminal with integrated adjustable colour touch vendor and colour customer displays. Cassette label/receipt printer in the base.

XM200
Tower scale
Tower mounted colour customer display. Adjustable, integrated colour touch vendor display on base unit. Cassette label/receipt printer in the base.

XM300
Self-service scale
Large customer keyboard providing 104 preset keys and customer display on the column. Keys can be configured to provide single double or quad keys. Cassette label/receipt printer in the base.

XM400
Two-piece scale
Tower mounted adjustable colour touch vendor display. Tower mounted colour customer display. Cassette label/receipt printer in the base.

XM410
Two-piece scale
Tower mounted adjustable colour touch vendor display with integrated receipt/liner-less printer. Tower mounted colour customer display.

XM420
Two-piece scale
Tower-mounted, adjustable colour-touch vendor display with integrated receipt/liner-less printer. Tower-mounted colour customer display. Cassette label/receipt printer in the base.

XM500
Hanging scale
Integrated adjustable colour touch vendor and colour customer displays. Suspended from the ceiling from a pole.

XM600
System printer
Integrated adjustable colour touch vendor display. Cassette label/receipt printer in the base. Optional colour customer display. Optional "connection pack" enabling connection to remote platform and wrapper.

XM601/FX100D
As MX600 but with remote FX100D platform for simple weigh/wrap applications.

Avery Berkel

At-a-glance XM Series specification

Dimensions	Feet locations (spacing w x d)	Approx. 271 x 233mm
	(w x d x h) • Mono • Mono + tower • Self-service • Two-piece - base printer • Two-piece - raised printer • Two-piece - dual printer • Hanging • Non-weigh ECR/pre-pack printer	 XM100 408 x 466 x 156mm XM200 408 x 556 x 528mm XM300 408 x 493 x 721mm XM400 408 x 405 x 528mm XM410 408 x 478 x 502mm XM420 408 x 478 x 502mm XM500 408 x 312 x 775mm XM600 268 x 271 x 364mm
Metrology	• Standard capacities	15kg AVR
	• Options	30kg x 5g, 6kg AVR on XM100 30kg x 5g on XM200
	• Out-of-level compensation	Yes - Valumax
	• Protected metrology unit (service electronics without need to restamp/break seals)	Yes
Power	• Power supply - rating & type	100-240VAc, 50/60 Hz, Internal
	• Power saving mode	Yes, auto reduce to 20-25% of normal running power or 4 to 5w
Technology base	• Processor	Freescale ARM 9 processor, 32-bit
Memory	• Std/max memory	256MB on-board Flash, max 32 GB SD Flash card
	• No. PLUs at 20 chars/PLU	20000+
Networking: inter-scale	• Inter-scale network	Ethernet as std, 10/100 base-T auto switch
Networking: Host I/f	• Networking host I/f	Ethernet as standard
	• Number of host networks/servers	Unlimited
RF comms	• RF: inter-scale and host	Optional: internal USB WiFi device - 802.11b/g/i/n
Displays	• Operator display	7” active colour WVGA TFT: 800 x 480: resistive 5-wire touch screen mounted on tiltable fixture
	• Customer display	7” active colour WVGA TFT: 800 x 480
Interfaces		5 x USB interfaces
USB memory device support		Yes
Sound		Full sound system with speaker

At-a-glance XM Series specification (continued)

Keyboard	• Keyboard type	7” touch with 20 additional programmable keys and tactile numeric keypad
	• No. programmable keys	Hundreds with 2 key presses
	• Self-serve - number of keys	104 x 2
Label/receipt printer	• Cassette	Yes, single action
	• Label/receipt roll diameter	120mm
	• Max print width	70mm
	• Edge-to-edge printing @ max print width	Yes
	• Backwind	Yes
	• Max paper width	73mm
	• Maximum print length	300mm
	• Print speed	150mm/s
Label/receipt printer - general	• User-replaceable print head	Yes
	• Easy-to-load graphics on labels save on pre-printing	Yes
	• High-resolution grey-scale printing	Automatic grey-scale printing from any black and white or colour graphic
	• Print-head monitoring/warning	Yes - ‘Codechecker’ - so only scannable barcodes are produced
Raised printer	• Models covered	XM410, 420
	• Roll diameter	100mm
	• Max print width	56mm
	• Max paper width	60mm
	• Print speed	150mm/s
	• Linerless adhesive paper	Yes
	• Drop-in paper loading	Yes, cassette system
Modes	• Label	Yes
	• Receipt	Yes
	• ECR	Yes
	• Pre-pack	Yes

Hardware

Processor & memory

XM series uses an ARM9-based IMX27 processor from Freescale.

There is 256MB of flash memory, 128MB of SDRAM and a 2GB SD Card. The flash memory holds the boot loader, application, and system settings which are loaded into the SDRAM for operational purposes. Customer data is held and operated from the flash with third-party data such as videos, sounds, images, etc being stored on the SD Card.There is around 170MB available for customer data on the flash memory. The number of PLUs that can be stored varies with the number and lengths of various texts stored.

Weighing

All models are available as 15kg AVR which gives 2g increments to 6kg and 5g increments from 6 to 15kg.

XM100 is optionally available as 30kg x 5g and 6kg AVR which gives 1g increments to 3kg and 2g increments from 3 to 6kg.

XM200 is optionally available as 30kg x 5g.

Every XM has the loadcell metrologically sealed to enable the main components outside of the weighing mechanism to be serviced without breaking any weights and measure seals.

Valumax technology

Valumax is a patented technology unique to Avery Berkel Xtra scales. It automatically compensates for out of level conditions that frequently occur with weighing scales. When the scale is out of level it underweighs, giving a weight which is lighter than it actually is. Valumax compensates for this and corrects the weight to its real value. This feature can save the retailer many thousands over the lifetime of the scale and also ensures that the scale always complies with the levelling requirements of Weights and Measures authorities.

Touch screen & tactile keypad

The input devices on XM consist of a transparent touch screen and tactile keypad.

The touchscreen uses 5 wire resistive technology and is thus extremely robust. Not only does the touchscreen cover the display area, but also extends below to provide 20 programmable keys similar to those found on traditional button key-operated machines.

The tactile keyboard comprises the numeric pad, Fix, Tare and Zero keys, Enter and Cancel keys plus a Menu key which displays a menu of additional available functions to the user. The functions displayed are dependent upon the current screen being displayed and how the machine has been set up.

Displays

Both vendor and customer displays are TFT, 7” active colour WVGA with 800 x 480 pixels. The displays can be configured to deactivate after a specified period of inactivity and the machine can also be configured to switch off the displays at a specified time. When this happens, the scales on wired ethernet consume around 80% less power than when in full use (non-printing) and those on wireless RF around 75% less. This reduces power consumption to 4-5 watts when in this state.

Printing

Most XM models make use of one label or receipt cassette printer mounted in the base. The XM410 has a receipt cassette printer mounted in the headwork and the XM 420 has both the head-mounted receipt and lower-mounted label/ receipt cassette printer.

Label/receipt printer

This is a heavy duty printer with dual motors, one driving the paper feed and one the paper take-up.

The cassette system is single-action removal, meaning that to remove the cassette you need do nothing more than unlatch the red lever and withdraw the cassette. The printhead is automatically raised.

Additionally, the cassette, side panel and ticket mouth are all one piece, meaning that there is nothing to lose or remove – the scale will always be complete and look its best. The ticket mouth at the front can be flipped down, allowing any paper jam to be easily cleared with the cassette in place.

The cassette itself features devices for ensuring the paper roll is retained when it is out of the printer, and a paper guide. These, together with the take-up reel tensioner, are coloured red so the operator can easily identify which parts can or may need to be adjusted.

Spare cassettes are available in order that when one runs out, it can be exchanged in seconds with a pre-loaded replacement ensuring near-continuous service at the counter.

The printer contains several sensors that inform if the cassette is home, the latch shut properly, etc. This, coupled with on-screen instructions ensures that the cassette is always replaced properly and the latch pushed home. A label taken sensor is fitted as standard to every Xtra scale detecting when the label has been taken in order that the label roll can be rewound slightly and thus printing of the next label starts exactly on the edge of the paper. This ensures the entire label can be printed on and reduces paper costs.

The scale measures the amount of paper remaining on a roll and presents this information on the vendor display. The amount remaining is calculated from the speed of rotation of the label core and therefore is always correct, irrespective of any roll changes, rebooting the scale, etc.

Print heads are hard-wearing, 70mm wide and are capable of printing up to 16 scales of grey for more realistic image printing. This also means that images used on labels do not need to be dithered or reworked prior to incorporation in the label design. The print head also benefits from patented Avery Berkel Codechecker technology that monitors the condition of the printhead, lengthens its life and helps avoid prolonged queues at

checkouts due to non-scanning barcodes. This is also used to display the printhead status in the status bar at the lower edge of the vendor display.

Receipt printer
XM410 and 420 models have a receipt printer in the upper keyboard/display housing. This also makes use of a cassette system for fast loading of receipt paper. The printer is equipped with a special roller as standard enabling use of liner-less adhesive paper.

The print head is integrated into the printer and is exchanged by replacing the low-cost printer mechanism.

Dual printer
The XM420 has both a cassette label/receipt printer in the base and a receipt/linerless printer in the upper keyboard/display housing. A common setup is to use the scale for both labels and receipts, printing labels at the cassette printer in the base and receipts on the upper printer.

Interfaces

XM scales have a total of 5 USB interfaces. Four of these are located beneath the scale with one intended for a USB WiFi device and the remaining three for peripherals such as scanners or cash drawer.

The fifth USB socket is located in the printer compartment and is intended for connection to a USB mass storage device for local down and upload of scale data or transfer of a scale “image”.

Inter-scale & host networking

Each XM has 10/100 Base T Ethernet networking as standard. This enables connection in an inter-scale network as well as connection to a host back office or head office system.

The inter-scale networks can be configured in a Client/Server arrangement with all scales sharing the same Ethernet ‘port address’.

Scales can also be connected as “peers” whereby price changes made on one scale are reflected in the others. This is as opposed to client/server where transaction data and scale data are shared.

When scale networks are configured in a Client/Server configuration, each client is configured with the host name of its Server. Performance is the only limiting factor on the number of Clients a Server can support.

Resilience is provided by Client scales, which use the Server database by default, reverting to using their own database (‘Local’ mode) if the network connection is lost. When scale network connectivity is restored, the item and transaction data is re-synchronised across the network. A screen ‘Icon’ indicates to the user, the state of the network connection.

Peer-to-peer configuration relies purely on all scales being stand alone. The peer-to-peer network is defined and all price changes carried out on any scale in the peer network are reflected in the other scales.

Host connected scale networks can be arranged as ‘Multi-Server’ where each scale operates as an independent Server, each having a direct connection to the Host device. Alternatively the Scale networks can operate as Client Server with the Server being responsible for all Host data transfers. Client Server operation is required for ‘floating’ transaction systems used for both ‘Receipt’ and ‘Add’ modes.

In addition, host names of up to 100 characters can be specified for a particular scale for use in conjunction with DHCP and DNS.

MXTool can be used for the support of scales within a store network, enabling file and scale maintenance. This can also be achieved remotely, away from the store site, network access and infrastructure permitting.

WiFi communications

USB WiFi devices can be plugged in to the underside of the XM and used for wireless RF communication instead of wired Ethernet.

The standard may vary from one device to another but as a minimum, 802.11n with back compatibility to 802.11b is supported. Note that this is dependent on the wireless device and not the scale.

Software

Operating modes

Label mode
Label mode is used generally for single item, weighed or non-weighed transactions. The system can be set to print on request or automatically once the weight is steady.

Self-service mode
This is a variant of Label Mode, used mostly on fresh produce departments where the public are expected to weigh and label their own produce. The scale will prompt the user to select the item from the large self service keyboard and place the item on the scale. The label is printed as soon as the weight is steady. This mode is usually used with the XM300.

Pre-pack
This mode enables labels to be automatically printed for a selected item upon the weight on the pan changing. An item is selected in the standard way and then fixed with a label being printed each time the weight changes and returns to a steady weight again.

The label taken sensor ensures that labels are not issued before the last one has been taken.

Non-weighed items can have the labels streamed if required – ie. many labels are printed for the same non-weighed item in one run. This is typically used to quickly label bakery items.

Label formats
Label Formats are fully flexible in layout and can be pre-set for a scale or for each individual item.

Multiple formats can be set up with a range of standard default formats being preset into each XM upon delivery.

The label format editor in the MX series of software products can be used to modify the label formats.

Up to 50 fields of information can be printed on each format. Fields consist of legends used for variable data such as dates, weight, weight per kg etc, sales messages with fixed text data set against a particular PLU and logos or graphics. All of the above can be rotated to 90, 180 or 270° and the entire label can also be rotated to 0, 90 or 180°.

Printing can be set to individual sticky labels where the gap between labels is sensed or continuous sticky paper which is torn off against the tear bar. Labels on continuous sticky strip will automatically print to the correct length, whereas those on individual labels will need to be designed to fit on the space available.

Receipt mode
Receipt Mode enables a list of transactions to be assigned against an operator and these to be totalised. Additionally, when the scales are networked together, operators may float across several machines, adding transactions as they go.

An unlimited number of operators may be live on each scale network at any one time with name and number printing on the receipt, subject to system performance. Receipt formats are largely fixed with a flexible header and footer at the top and bottom. Different receipt formats are available although some of these are country-specific and some countries specify that a certain layout or terms must be used.

The void function enables the cancellation of a complete sale or individual transactions prior to closing and printing the receipt. Sales can be limited to those from a specific department by including the Department or Group in the receipt barcode.

Receipts can be printed on continuous adhesive paper or receipt (non-adhesive) paper on the cassette printer and on receipt paper or linerless adhesive printer on the upper receipt printer on XM410 and 420 models.

All receipt transactions can be stored and collected and individual receipts reprinted – see the Audit section for further details. These can be reopened and voided as a whole or have individual transactions voided, subject to the feature being enabled

Receipts can also be set up to print a copy immediately after every original.

System data
System Data is that which applies to an entire XM Series network. This data can be created and edited on any scale in the network, through one of the MX-software packages or from a third party back office and using an MX data integration product.

Product
Product consists of numerous data elements, all editable when in manager mode. This covers department and group to which the PLU belongs, the PLU number and description together with other associated text, price and associated information, promotional information, date information, sales messages, logo, barcode information, traceability information, nutritional information and keyboard location.

A handheld scanner can be used to assist in quickly creating or editing PLUs directly on the scale when in manager mode.

PLU management can be optimised for specific requirements by disabling those areas of the PLU which are not needed.

Promotions
PLUs can be programmed with one of the following types of promotion:

Cross promotion
An advert can be programmed to be displayed when a specific PLU is called up. The advert may take the form of moving text, image or video.

Price promotion
Applicable to both weighed and nonweighed products and allows 2nd and 3rd prices to be automatically applied when either a certain weight or number of items of a product are sold.

Weight free promotion
Applies to weighed products only and allows a configurable amount of weight to be sold free of charge, when the total weight of the product is above a configurable amount of weight.

Items free promotion
Applies to non-weighed products only and allows a configurable number of items to be sold free of charge, when the total number of items is above a configurable number of items.

Discount promotion
Applicable to both weighed and non-weighed products and allows a discount value to be automatically applied to the transaction value when a certain weight or number of items are sold.

Voucher promotion
Applicable to both weighed and non-weighed products and allows the printing of a separate voucher containing a saving value, when either a certain weight or number of items are sold.

Frequent shopper promotion
Applicable to both weighed and non-weighed products and allows a product to be programmed with a second fixed price which is then printed on the label in addition to the original price. Customers who are part of a store's frequent shopper program, are charged at the frequent shopper price at the point of sale. The barcode printed on the label containing a frequent shopper promotional price will contain the original standard price.

All of the above promotions can be included into a timed batch which enables promotions to be automatically enabled and disabled on each day of the week and at pre-defined times.

All of the above promotions except the frequent shopper promotion can be used in label and receipt modes. Frequent shopper can only be used in label mode.

Idle time adverts
The XM can be configured to display a series of adverts – text, image or video whenever the scale has had no key press or weight change for 5 seconds. The playlist is defined from media held on the scale and will cycle around back to the beginning when the end is reached. If it is cut short, it will resume with the next advert in the list after 5 seconds of no interaction.

Nutritional information
Each PLU can be provided with nutritional information if required. A list of nutrients needs to be programmed first, against which, values are then programmed in the PLU records. Nutrient information can be programmed to print either on the same product label, or on a separate label. As well as being able to print individual nutrient values per product, the standard measure (normally 100g) values and RDA values can also be printed.

Departments
The number of departments is unlimited, but in practice is constrained by system performance. A minimum of 100 departments is easily achievable. All products are allocated to a specific user-defined department.

Tables

The following data tables are used by the scales as data sources, The data stored in tables is referenced from other parts of the software when required.

Tax
Tax rates can be programmed, with up to two tax rates being assigned to PLUs.

Tares
Tare weights can be programmed which can be assigned to PLUs for use as preset tare values or assigned to keys for recall in normal operating mode. A tare interlock can be used to ensure a label is only printed if a tare has been selected. Tares may be configured as self-cancelling (one-shot) or fixed. Additionally, semi-self-cancelling, cumulative or proportional tares may be programmed.

Discount tables
Discount rates are programmable with a maximum of 16 displayed characters for describing the discount rate. The discount value may be disabled or entered as a percentage or value. The security level is applied for discount protection when operating the scale in sales mode.

Add label
You can assign one of the standard label formats to be printed as the add label format, or this can be set to print in a receipt style.

Barcode types & formats

XM supports the following barcode types:

- EAN 13
- EAN 13 Scandinavian.
- EAN 8
- UPC 13
- UPC12
- EAN 128
- Code 128
- Code 39
- Code 39 extended
- PDF 417
- GS1 Databar expanded
- GS1 Databar stacked
- GS1 Databar14
- GS1 Databar limited
- ITF14

The following data may be encoded in the barcode: article number, price, weight, trace code, operator number or department number, group and transaction number. SSCC data is also supported.

Weighing and traceability type application identifiers are supported by EAN 128 and GS1 Databar barcode formats. Barcodes may be programmed to print on receipts, labels, talons or combinations thereof.

The add label barcode format is that which is programmed for that machine's receipt.

Each PLU may be programmed to use one of the configurable barcode formats.

Header message (sign on) (for receipts only)
The message printed at the top of receipts can be programmed at any scale and is transmitted to all scales in a system, ensuring all machines print identical headers. The header message may be printed multi-line, across the full width of the receipt.

A logo can also be used in addition to, or instead of, the header message and is printed at the top of the receipt.

Footer message (sign off) (for receipts only)
The trailer message printed at the bottom of receipts is programmed at any scale and is transmitted to all scales in a system, ensuring all machines print identical footers. The trailer message may be printed multi-line, across the full width of the receipt.

A logo can also be used in addition to, or instead of, the trailer message and is printed at the bottom of the receipt.

Information labels
Information label references can be set up in order to be assigned to PLUs. An information label is programmed with a description, label format number and preferred integral printer.

When a PLU is served with an associated information label, in label mode, the information label will be printed after the initial product label. In receipt mode, the information label is printed when the PLU is transacted by the operator key.

Information labels can be used for a number of different applications including ingredients, recipes, promotional/merchandising, cooking instructions, coupons and traceability.

Vouchers
Voucher types can be set up and used in conjunction with a PLU voucher promotion. Each voucher reference needs to be programmed with a description, mode of use (label, receipt or both), expiry date, barcode format, printer from which the voucher should be issued and label format (which provides the voucher layout).

Vouchers containing barcodes can then be scanned at the point of sale and depending on the barcode content, can be used to identify the product, voucher price and even expiry date.

Re-pricing

The re-pricing mode is a non-PLU associated method of printing labels, with pricing and barcode information, which are adhered over a product's original price and barcode information. The re-price function requires setting up with default label information, barcode format, whether packs will be weighed and if totals are required to be stored or not.

Traceability

XM scales feature comprehensive options for all types of traceability requirements. Different traceability schemes may be individually programmed, allowing associated products to be tracked through their supply chains. Scheme options include the ability to print user-defined trace information, manual or scannable methods of data input and the ability to reproduce 'traceability passports'. All schemes can be used in either label or receipt modes, allowing counter or pre-pack service operation.

Operator roles
Each operator can be programmed with varying levels of access to specific functions such as price override, manager mode access, discounts etc.

Security log
The security log is a report which shows functions that have been carried out above a user-entered security level. For example, a report printed for security level eight would print each level eight and nine function carried out, with the date and time and the name of the operator who performed the function.

System functions

Audit mode
Audit mode records transactions performed on the scale and is activated in Manager Mode.

The filtering option allows the operator to select whether transactions should be stored for Label only, Receipt only or Label and Receipt transactions.

The server buffer is configurable to store receipt or label transactions in a linear or circular format.

Linear can only hold a determined number of transactions and advises the operator when full. Depending on the linear option selected, the operator may or may not override this warning. When overridden, the first transaction stored will be overwritten. If the linear mode has been selected and override is disabled, trading cannot continue until the buffer is emptied by printing the audit report and clearing the transactions. A circular buffer will continuously write over transactions on a first in, first out basis when the memory becomes full.

The transaction buffer size can be changed in Service mode, on Installation.

Receipt weight mode
If required, the total weight of each receipts' weighed transactions can be printed at the bottom of the receipt.

Last subtotal
When enabled, last subtotal allows operators to recall the value and number of transactions from the last receipt they transacted, to the display. Reprinting of the receipt is possible by pressing the 'Total' key. Note that this receipt is marked as a duplicate copy.

Pre-pack PLU lock
Dependent upon the setting of the pre-pack PLU lock, in pre-pack mode, PLUs may need to be cleared before a different PLU can be called via the pre-set keyboard. If they are required to be cleared, set as enabled. If they are not to be cleared, set as disabled.

Security log level
Any functions with a security level equal to or higher than the value entered here, will be printed in the security log.

Summary receipts
For networked receipt printing machines to work in 'customer', 'system' or 'receipt scan' mode, summary receipts is required to be set to 'subtotal'. This results in subtotal receipts being produced, which can be recalled using the customer number printed on the receipt, at the PoS.

Customer number
This can be set to be manually entered or system generated. The customer number is only printed on summary receipts.

Machine data

Touch-screen key assignments
Touch keys can be programmed in one of three ways; Bestseller, Quickbuild or Dynamic

Bestseller automatically sorts the products into a series of keyboards. The products are placed on the keyboard according to the number of times a product is traded. The keyboards can be set to update automatically at defined intervals. If a product is replaced, the overall order remains the same so that the rest of the keys are still in the same position on the keyboard.

Quickbuild is a free keyboard configuration built by the user. It is possible to create menu trees or groups of products within a logical menu system and therefore access hundreds of PLUs within a couple of key presses.

Dynamic are menu systems populated by a back office system. The menu is built according to the hierarchy defined in the backoffice (E.g. Beef, Pork, Soft Cheese, etc) which takes the top level menu and the products that belong to it that are placed beneath that top level. The bestseller method is then used to arrange those PLUs.

Pre-set key assignments (dedicated keys)
XM contains two rows of free-programmable keys beneath the touchscreen. These may be set to any combination of functions, including PLU, tares, Departments or Operators. A printed underlay is required to denote the functions assigned. The different types of assignments are; standard assign, ECR assign and pre-pack assign.

The free programmable (pre-set) keys may be set to any combination of functions in:
Standard assign; includes PLU, Operator, Log, PIN, Tax, Department, Tare, Prop. Tare, Dual Capacity, Euro, Return, Discount, Sub - total and Hash, Hand Price Keys, UP/PLU, Positive Non-weighed, Negative Non-weighed,

Carcass, Code, Stock, Weight Override, Checkout Operator, Customer Number and Consecutive Number.

ECR assign; includes payment references, No Sale, Float, Pick up, Paid out, Received on Account and Refund.

Pre-pack assign; includes rewrap, Non add, Wrapper on/off and reprice.

These keys can be set up on the touch screen display, or the pre-set keys can be re-titled by applying adhesive labels to the existing underlay or by reprinting the complete keyboard.

Function keys
The PRINT key can be set to be used to print total (non Pos and PoS), receipts or subtotal (non-itemised) receipts (for use in 'customer', 'system' or 'receipt scan' modes).

Web browser

XM supports a web browser which can be setup to connect to the company intranet or other web-based service. Hyperlink keys to call up specific web pages can be placed on the on-screen slide-out function menu.

Service mode

This mode includes the following functions, accessible by entering the service PIN number during power-on.

Diagnostics, Configuration, Country Config., Calibration, Site Gravity, manager PIN, Service PIN, Euro Set-up, Clone Machine and Label Editor.

PC-based systems software management packages

MX100
MX100 has been specifically designed to provide a transparent interface between the retailers' primary Item Management module (sometimes the EPoS system), and the mixture of scales in the various departments within the store.

MX100 is designed to run on the same computer as the management module, but "in the background". This solution allows the retailer to control the prices and product range in both the EPoS and the scale systems from the Head Office.

MX100 also provides for the collection and return of scale sales reports, as well as enabling a detailed audit trail of transactions.

How does MX100 work?

- MX100 is installed on the local or head office store management system according to the back office infrastructure used by the customer.
- MX100 processes the incoming product 'change' file and validates its integrity.
- The validated file is communicated to the scales.

MX500
MX500 is a dedicated scale management system, providing functions not generally found in retail business management software (such as extended text editing and label design).

It provides a safe and secure method of maintaining scale data and recovering trading information over large scale estates. Used for the following applications:

- Head-office scale management system
- Support for M, MP and Xtra scales
- Management of product and related data
- Configuration of scales

MX-SBT
MX-SBT enables businesses with small numbers of scales to manage scale data, label design, keyboard design, media management and traceability schemes. Additionally, it is possible to call back and export scale totals for import into a spreadsheet program such as Microsoft Excel.
MX-SBT can also be used to track and report on scale asset and configuration data, manage the scale network and remotely take control of the scale.

MX-Tool
MX-Tool is intended for support staff and enables maintenance of the same data as MX-SBT in the same way. Additionally, tools are provided that allow scale configuration, firmware update and scale diagnostics as well as direct access to the scale database.

Kits/accessories

The following kits are available for XM scales. All kits are field fit options by a qualified technician.

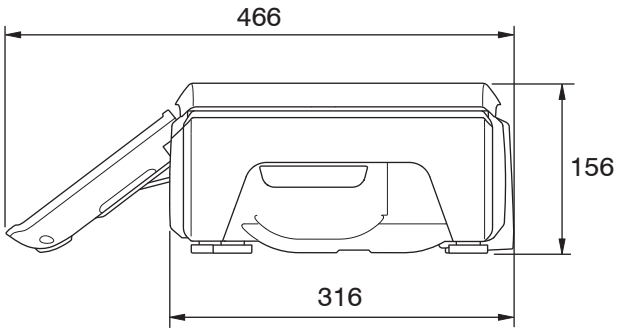
- XM/XT WiFi kit with WiFi device
- XM/XT WiFi kit without device – cover and fixings only
- XM/XT spare printer cassette

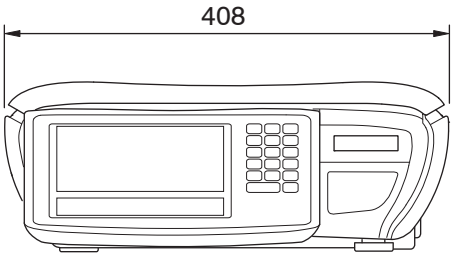
The following accessories are available for XM scales and can be fitted/installed by a customer.

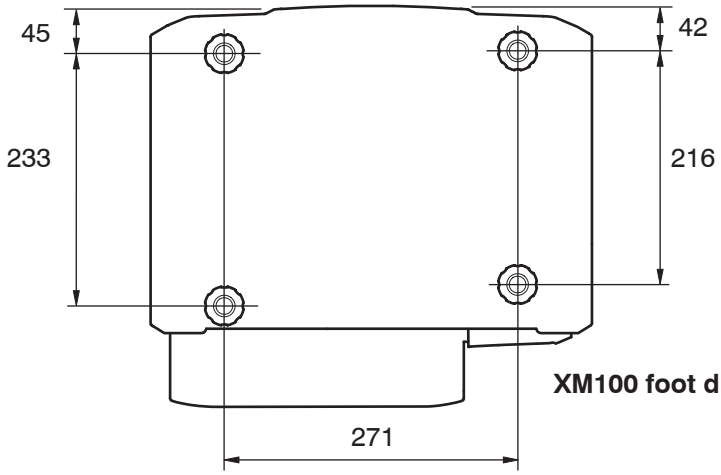
- Low profile stainless steel cashdrawer
- Economy black cash drawer
- MS9520 Metrologic Voyager USB Hand Scanner
- MS7120 Metrologic Orbit Presentation Scanner

Dimensions

XM100

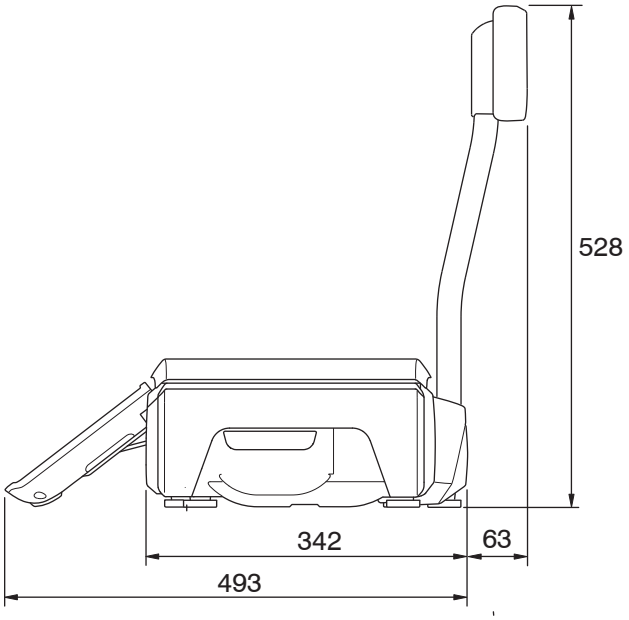


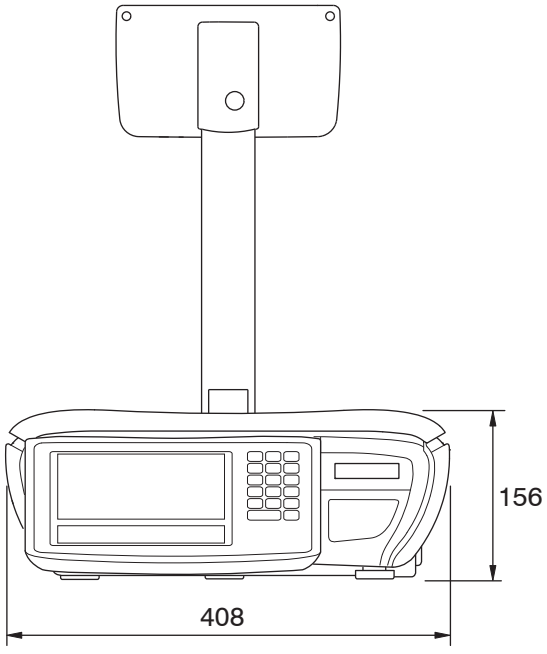




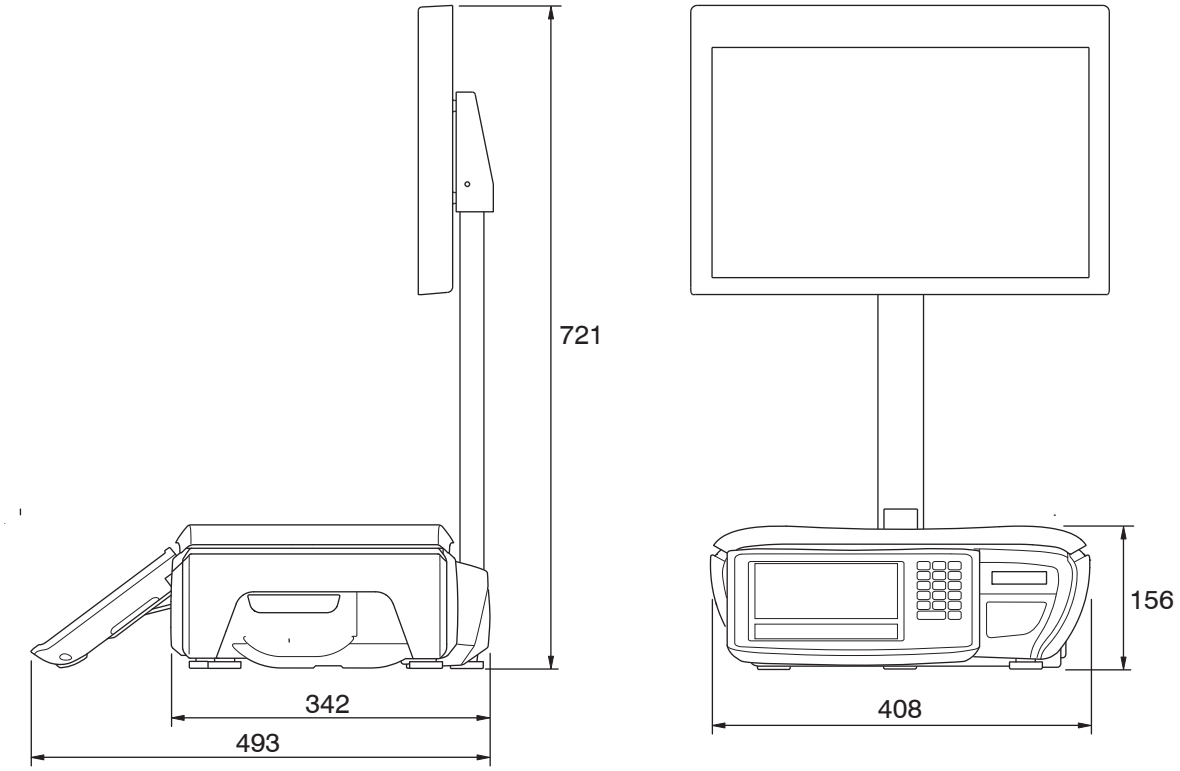
XM100 foot dimensions

XM200

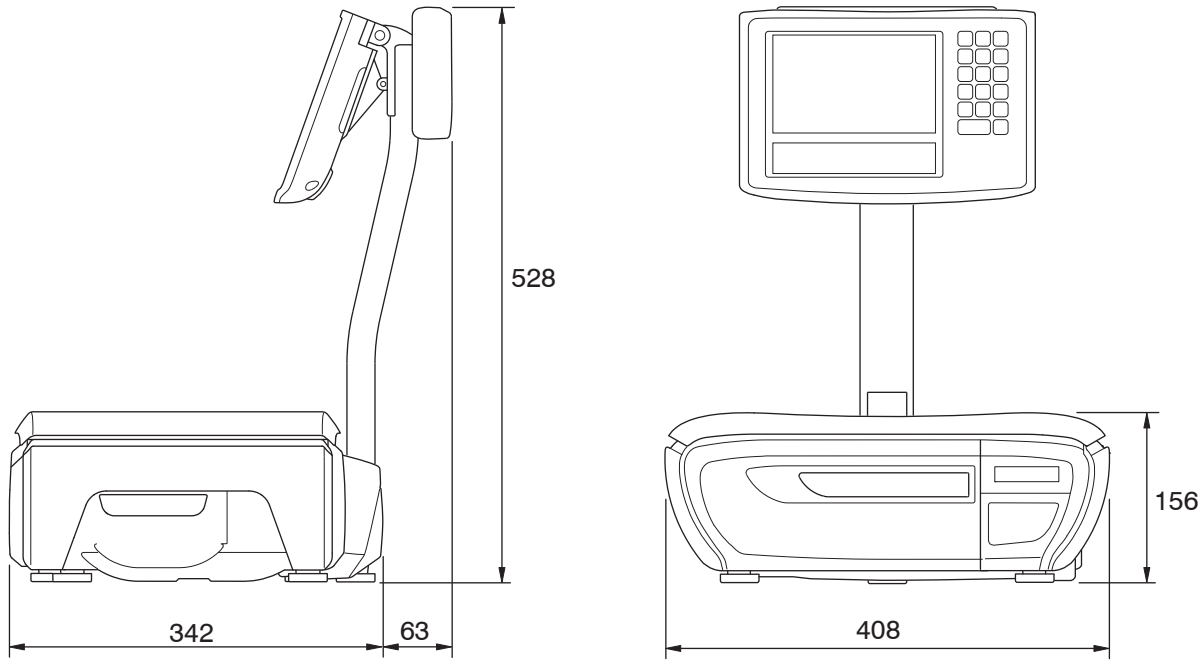




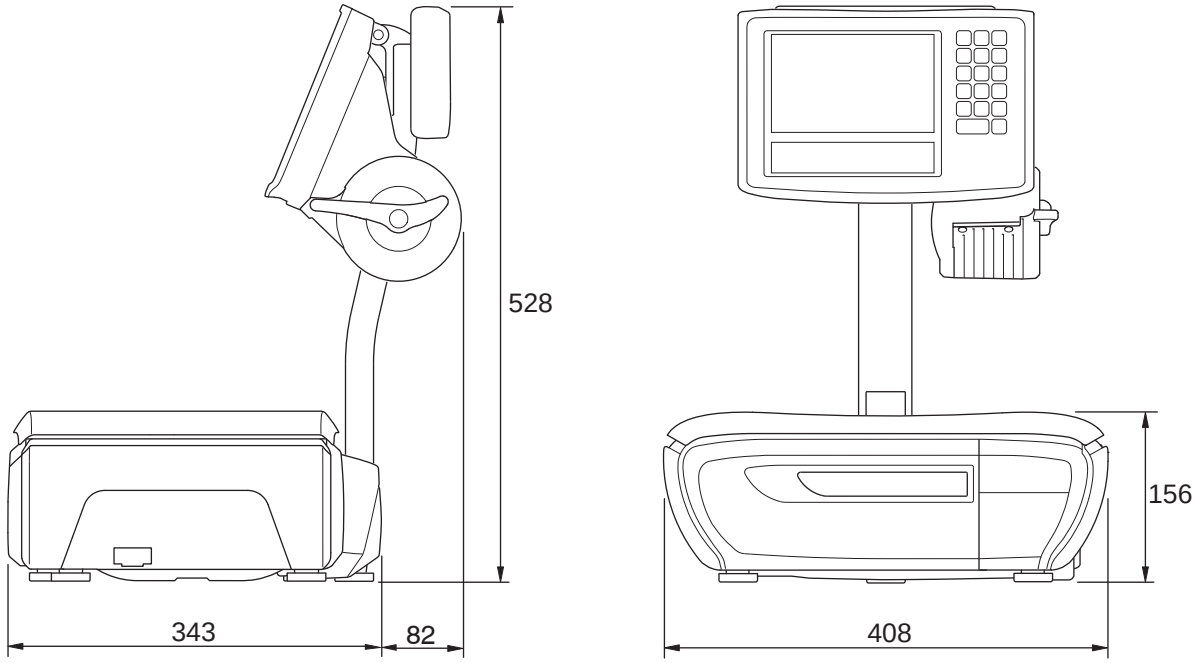
XM300



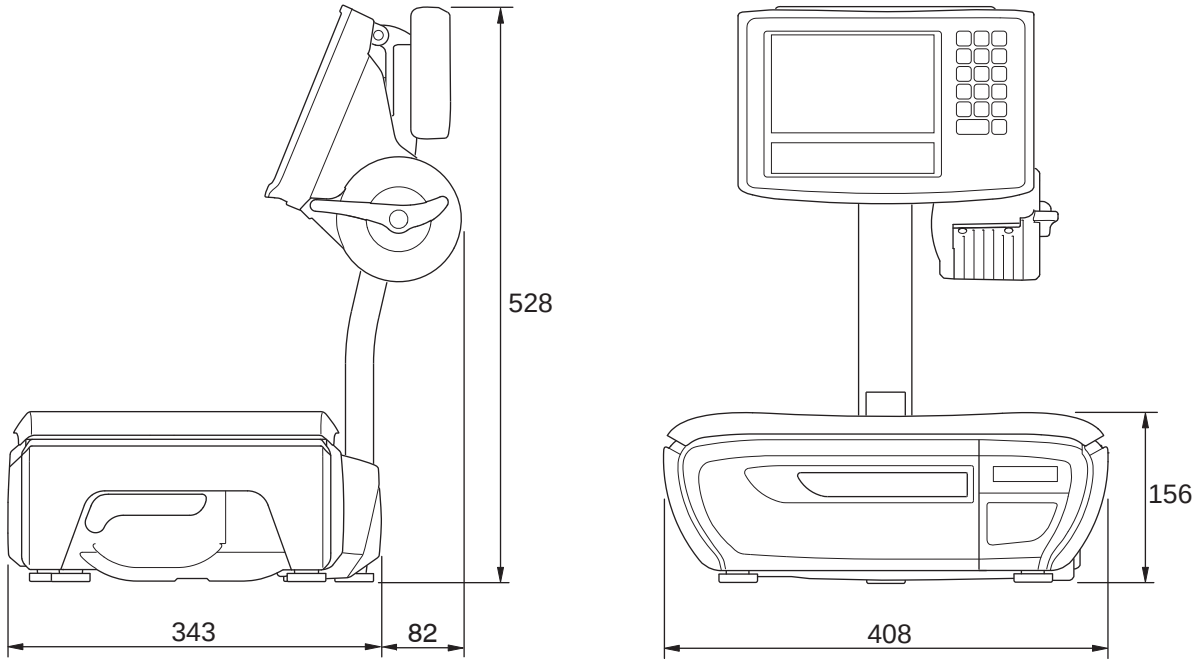
XM400



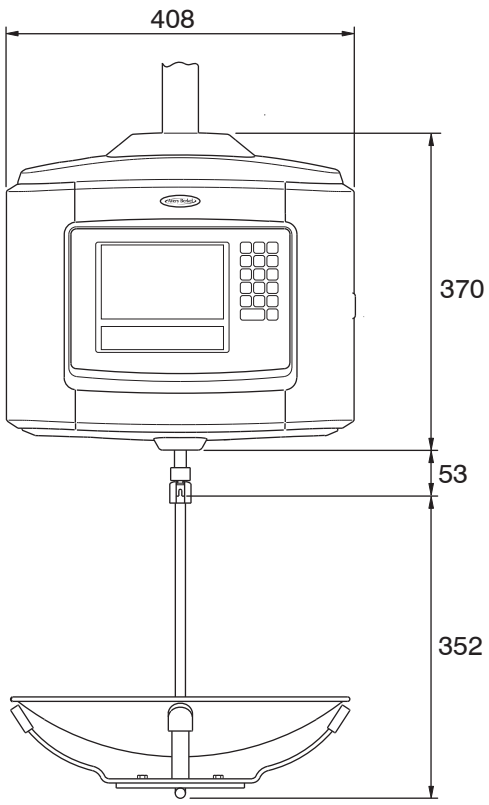
XM410

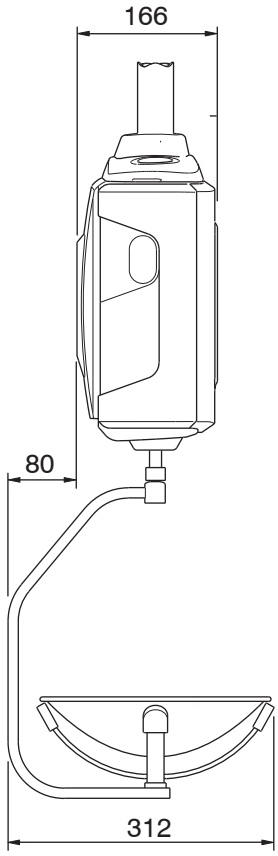


XM420

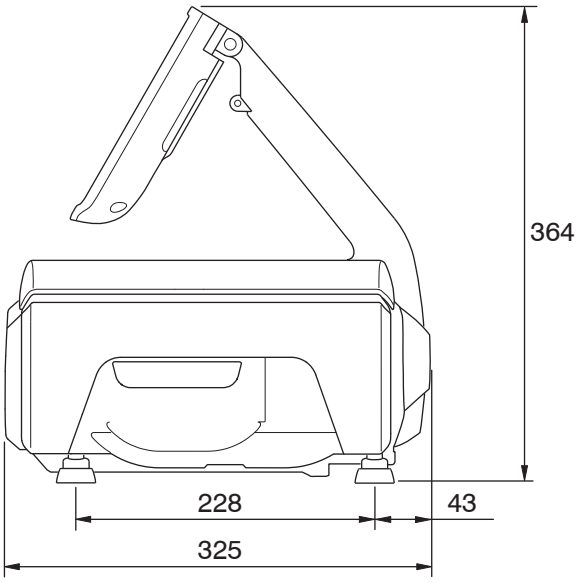


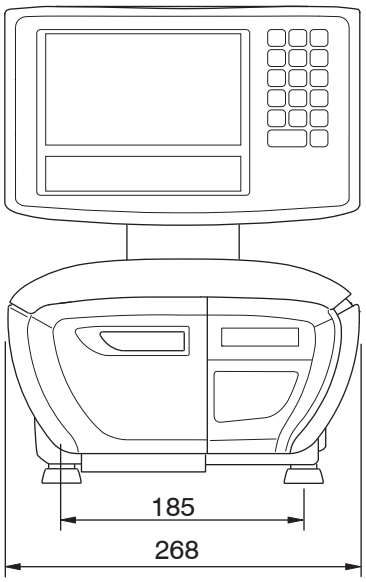
XM500



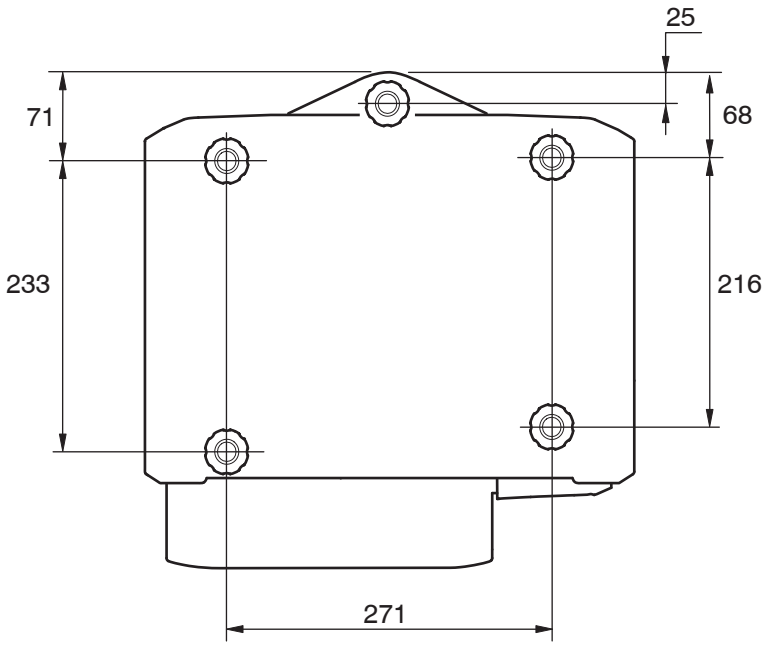


XM600





XM200, 300, 400 foot dimensions



© Avery Berkel 2010. All rights reserved. This publication is issued to provide outline information only which, unless agreed in writing by Avery Berkel, a division of ITW Limited, may not be regarded as a representation relating to the products or services concerned. Avery Berkel, a division of ITW Limited, reserves the right to alter without notice the specification, design, price or conditions of supply of any product or service.

Foundry Lane, Smethwick
West Midlands, England B66 2LP

Tel: +44 (0)870 903 2000
Fax: +44 (0)870 904 2223
Email: info@averyberkel.com
Internet: www.averyberkel.com